

Title (en)

Organic light emitting diode display device having a two-sided substrate and method of forming the same

Title (de)

Organische lichtemittierende Diodenanzeigevorrichtung und zweiseitigem Substrat und Herstellungsverfahren dafür

Title (fr)

Dispositif d'affichage à diode électroluminescente organique doté d'un substrat double face et procédé de formation associé

Publication

EP 2472583 A2 20120704 (EN)

Application

EP 11193230 A 20111213

Priority

US 98046110 A 20101229

Abstract (en)

A display device (10) built on an insulating substrate (12) suitable for processing on both sides that includes a plurality of conductive through-holes (20) through the substrate (12). One side is reserved for a high-density array (14) of organic light emitting diodes (OLEDs). The OLEDs can be high-density because the electrical connections for the OLEDs are on the other side of the substrate (12) and interconnected via the conductive through-holes (20). The cathode sides (26) of the OLEDs are interconnected by a light transmitting layer (28) overlaying the cathode side that is electrical conductive. On the side of the substrate (12) opposite the OLEDs is an array of anode contacts (32) configured to form an electrical contact with a driver circuit (34).

IPC 8 full level

H01L 27/32 (2006.01)

CPC (source: EP US)

H10K 59/123 (2023.02 - EP US); **H10K 59/129** (2023.02 - EP US); **H10K 59/131** (2023.02 - EP US); **H10K 59/352** (2023.02 - EP US)

Citation (applicant)

- WO 2007092541 A1 20070816 - 3M INNOVATIVE PROPERTIES CO [US], et al
- US 2006121816 A1 20060608 - LEE KYU-SUNG [KR], et al

Cited by

FR3017994A1; EP3316308A1; EP2983207A4; US10121838B2; US9761653B2; WO2015128380A1; WO2014023740A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 2472583 A2 20120704; **EP 2472583 A3 20121121**; US 2012169682 A1 20120705

DOCDB simple family (application)

EP 11193230 A 20111213; US 98046110 A 20101229